**Prep for Figuring Out Fireworks!** Name:

Rodriguez/Adv Alg

**Part 1**: Find the x-intercepts of each of these parabolas, if you can. Remember the timesaver and self-check-helper!

1. y = (x – 4)2 – 49 2. y = (x + 2)2 – 64

3. y = (x + 10)2 + 1 4. y = 5(x – 7)2 – 10

5. y = -3(x – 8)2 + 22 6. y = – (x – 6)2 + 12

**Part 2**: Notice how these are in standard form. You’ll have to re-write them into vertex form first, and THEN figure out the x-intercepts.

1. y = x2 + 4x + 3 2. y = x2 – 6x + 12

3. y = – x2 + 8x + 9 4. y = x2 – 9x + 25

5. y = 4x2 + 15x – 10 6. y = -16x2 + 64x + 80